WHAT IS CLAIMED IS:

A method for displaying flight information, comprising:
 displaying a first characteristic sign illustrating a speed vector of an aircraft;
 determining a first longitudinal margin of maneuver of the aircraft as a load factor;

displaying a second characteristic sign such that a position of the second characteristic sign relative to the first characteristic sign illustrates the first longitudinal margin of maneuver.

- 2. The method of Claim 1, wherein the first characteristic sign and the second characteristic sign are displayed in a heads-up display viewfinder.
- 3. The method of Claim 1, wherein the first longitudinal margin of maneuver is related to one of a pitch-up maneuver and a pitch-down maneuver of the aircraft.
 - 4. The method of Claim 1, further comprising:

determining a second longitudinal margin of maneuver of the aircraft as a load factor, wherein the first longitudinal margin of maneuver is related to a pitch-up maneuver of the aircraft, and the second longitudinal margin of maneuver is related to a pitch-down maneuver of the aircraft; and

displaying an additional second characteristic sign such that a position of the additional second characteristic sign relative to the first characteristic sign illustrates the second longitudinal margin of maneuver.

5. The method of Claim 4, wherein,

a distance between the first characteristic sign and the second characteristic sign is proportional to the first longitudinal margin of maneuver, and

a distance between the first characteristic sign and the additional second characteristic sign is proportional to the second longitudinal margin of maneuver.

- 6. The method of Claim 1, wherein the second characteristic sign is displayed only when the determined first longitudinal margin of maneuver is less than a predetermined value.
- 7. The method of Claim 1, wherein the first longitudinal margin of maneuver is determined by selecting the smaller of a first load factor margin and a second margin.
 - 8. The method of Claim 7, wherein,
 the second margin corresponds to an angle of incidence margin, and
 the angle of incidence margin is calculated from the following expression:

$$\Delta \alpha = 1 - [(Nz / \Delta Nmax) * ((\alpha max - \alpha)/(\alpha - \alpha 0))],$$

wherein $\Delta\alpha$ is the angle of incidence margin, Nz is a load factor, Δ Nmax is a maximum value of margin of maneuver depicted, α is a angle of incidence, α max is a maximum angle of incidence, and α 0 is a zero lift angle of incidence.

9. The method of Claim 7, wherein,
the second margin corresponds to a speed margin, and
the speed margin is calculated from the following expression:

$$\Delta V = 1 - [(Nz + Kp(Vmax - V) - Kd(dV/dt))/\Delta Nmax],$$

wherein ΔV is the speed margin, Nz is a load factor, ΔN max is a maximum value of margin of maneuver depicted, V is the speed of the aircraft, Vmax is a maximum speed of the aircraft, (dV/dt) is a derivative with respect to time of the speed V, and Kp and Kd are predetermined parameters.

10. A method for displaying flight information, comprising: providing a heads-up display in an aircraft; displaying a speed vector of the aircraft on the heads-up display;

determining a margin of maneuver of the aircraft based on at least one of a speed of the aircraft and an angle of incidence of the aircraft; and displaying the margin of maneuver concurrently with the speed vector on the headsup display.

- 11. The method of Claim 10, wherein the margin of maneuver is determined as a load factor.
- 12. The method of Claim 10, wherein the margin of maneuver is related to a pitch-up maneuver or a pitch-down maneuver of the aircraft.
 - 13. The method of Claim 10, wherein,

the speed vector of the aircraft is indicated by a first characteristic sign on the headsup display, and

the margin of maneuver is indicated by a second characteristic sign on the heads-up display.

- 14. The method of Claim 13, wherein a distance between the first characteristic sign and the second characteristic sign is proportional to the determined margin of maneuver.
- 15. The method of Claim 13, wherein the second characteristic sign is displayed only when the determined margin of maneuver is less than a predetermined value.